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Classification report for roofs/roof coverings exposed to external fire Nr 14121B

Owner of the classification report

Renolit Belgium N.V.
Industriepark De Bruwaan 9
B-9700 Oudenaarde
Belgium

Introduction

This classification report defines the classification assigned to the roof covering **« AlkorPlan F »** in accordance with the procedures given in the standard EN 13501-5: 2005/AC: 2008: Fire classification of construction products and building elements – Part 5: Classification using data from external fire exposure to roofs tests: Test 3: Method with burning brands, wind and supplementary radiant heat.

This classification report consists of 4 pages

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1. DESCRIPTION OF THE ROOF / ROOF COVERING

	Communicated by the sponsor / Measured value
SUPPORTING DECK	
Material	Trapezoidal profiled steel deck 106/750 according to §6.4.4.3 of the standard
INSULATING LAYER	
Material	Mineral wool (naked)
Trade name	Taurox Duo NP
Manufacturer / Supplier	Rockwool Belgium
Thickness (mm)	100
Density (kg/m^3)	157
Fire retardant	No
Fixing method	Mechanical
ROOF COVERING	
1.1 Top layer	
Material	Flexible PVC roof waterproofing membrane with a PES scrim reinforcement (90 g/m²)
Trade name	AlkorPlan F
Manufacturer / Supplier	Renolit Belgium NV
Thickness (mm)	1,5
Surface weight (g/m²)	1850
Fire retardant	Yes
Fixing method	Mechanical

2. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

a) Test reports

Name of the laboratory	Name of the sponsor	Test report ref. no.	Test method
WFRGENT N.V. Ghent - Belgium	Renolit Belgium NV	14121A	ENV 1187/A1: 2005 : Test 3

b) Test results

Test conditions:

- Test pitch: 30°
- Supporting deck: trapezoidal profiled steel deck

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Parameter	Criteria			Test results		Compliance		
	Class $B_{ROOF}(t3)$	Class $C_{ROOF}(t3)$	Class $D_{ROOF}(t3)$	Spec. 1	Spec. 2	Class $B_{ROOF}(t3)$	Class $C_{ROOF}(t3)$	Class $D_{ROOF}(t3)$
External fire spread time (T_E)	≥ 30 min	≥ 10 min	N.a.	≥ 30 min	≥ 30 min	Yes	Yes	N.a.
Time to fire penetration (T_P)	≥ 30 min	≥ 15 min	≥ 5 min	≥ 30 min	≥ 30 min	Yes	Yes	Yes

N.a. = Not applicable

3. CLASSIFICATION AND FIELD OF APPLICATION

a) Reference

This classification has been carried out in accordance with clause 9 test 3 of EN 13501-5: 2005/AC: 2008 and EN 13956:2005.

b) Classification

The roof / roof covering **« AlkorPlan F »** in relation to its external fire performance is classified:

B_{ROOF} (t3)

c) Field of application

- Range of pitches: from 10° to 70° (both included)
- Range of decks:
  - Any profiled and non-perforated steel deck
  - Any non-combustible continuous deck with a minimum thickness of 10mm
- Range of insulation:

Material	Mineral wool (naked)
Thickness (mm)	100
Density (kg/m3)	157
Fire retardant	No

4. LIMITATIONS

At the time the standard EN 13501-5: 2005/AC: 2008 was published, no decision was made concerning the duration of validity of a classification document.

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5. WARNING

This classification document does not represent type approval or certification of the product. The classification assigned to the product in this report and in accordance with the product standard EN 13956:2005, is appropriate to a declaration of conformity by the certification body within the context of a system 1 attestation of conformity and CE marking under the Construction Products Directive, as the sampling was performed by a notified body.

Report	Name	Signature*	Date
Prepared by	Ing. Frans DUTRIEUE Jo.		21 DEC. 2009
Reviewed by	Prof. Dr. Ir. Paul VANDEVELDE		21 DEC. 2009
*For and on behalf of "WFRGENT N.V."			

EN 13501-5 Broof(t3) WG 5E*

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